

REMARKS

1. Claims 1-5 have been canceled and claims 6-7 are newly added.

2. Response to objections to the drawings:

The specification has been amended to add reference characters 222 and 3122 in the submitted substitute specification to comply with 37 CFR 1.84(p)(5).

3. Response to objections of the specification:

The informalities indicated in the detailed action have been corrected in the substitute specification.

4. Response to claim objections to claims 1, 2 and 3:

Claims 1, 2 and 3 have been canceled and no corrections are made to the objections.

5. Response to claims 1-5 being rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement:

Claims 1-5 have been canceled and no arguments are made to the rejections.

6. Response to claims 1-5 being rejected under 35 U.S.C. 102(b):

Claims 1-5 have been canceled and no arguments are made to the rejections.

7. Brief summary of the characteristics of the newly added claims 6 and 7:

The characteristics recited in the newly added claim 6 is in that an annular plate shaped stop member 2121 with a central hole is integrally joined to said upper end for the shaft 20 being capable of passing through the central hole and fitting with the bearing 24; the sealing plug 27 has an inner circular groove to accommodate the free end of the shaft 29 and receive the lubrication oil; and a clearance, which is smaller than molecular structure of the lubrication oil and capable of breaking capillarity of the lubrication oil, is formed between said stop member 2121 and said shaft 29 such that the lubrication oil is unable to flow outward said bearing seat 212 via the clearance and flows backward to the inner circular groove while the fan blade wheel 22 rotating.

The characteristics recited in the newly added claim 7 is in that an annular plate shaped stop member 37 with a central hole is attached to an inner surface of the upper end of the bearing seat 312 for the shaft 29 passing through the central hole and fitting with the bearing 24; the closed lower end of the bearing seat 312 has an inner circular groove to accommodate the free end of the shaft 29 and to receive lubrication oil; and a clearance, which is smaller than molecular structure of the lubrication oil and capable of breaking capillarity of the lubrication, is formed between the stop member 37 and the shaft 29 such that the lubrication oil is unable to flow outward the bearing seat 312 via the clearance and flows backward to the inner circular groove while the fan blade wheel rotating.

8. Comparison of the characteristics recited in the newly added claims 6 and 7

to Li.:

The electric fan disclosed by Li provides a center shaft 121 and a fan blade assembly 2. The top end of the shaft 121 has a stop flange 126 and the fan blade assembly 2 has a hub 21 to form a receiving chamber. An axle 24 extends into the center shaft 121 from the hub 21 and a lubricating axle bearing 3 fits with the axle 24 in the center shaft 121. A tapered oil return wheel 211 disposed in the receiving chamber and an oil groove 211 is provided at the center of the hub corresponding to the receiving chamber.

However, the plate shaped stop members 2121, 371 recited in the newly added claims 6 and 7 are different from the stop flange 126 of Li. Further, the receiving chamber in the stop flange 126, the tapered oil return wheel and the oil groove 211, which are disclosed by Li are not recited in the newly added claims 6 and 7. In addition, the sealing plug 27, which is recited in newly added claim 6, is employed to block the bottom of the bearing seat 212 and an inner groove provided in the sealing plug for receiving the free end of the shaft 29 and containing the lubrication oil is not disclosed by Li. Besides, the bottom of the bearing seat 312, which is recited in the newly added claim 7, having an inner groove 3122 for receiving the free end of the shaft 29 and containing the lubrication oil is not disclosed by Li. Furthermore, a clearance, which is recited in the newly added claims 6 and 7, being formed between the shaft 29 and the stop member 2123, 371 respectively is capable of breaking capillarity of the lubrication oil such that the lubrication oil being unable to flow outward the bearing seat 212, 312 via the stop member 2121, 371 is not disclosed by Li.

9. Comparison of the characteristics recited in the newly added claims 6 and 7 to Hsieh:

The lubricating system for cooling fans disclosed by Hsieh provides a column 23, a self-lubricating bearing 30, a locating shaft 14, an oil ring 17 and an oil retaining cap 16.

However, the plate shaped stop members 2121, 371 recited in the newly added claims 6 and 7 are not mentioned by Hsieh. Further, the bevel grooves 301 at both ends of the self-lubricating bearing 30, the oil ring 17 and the oil retaining cap 16, which are disclosed by Hsieh are not recited in the newly added claims 6 and 7. In addition, the sealing plug 27, which is recited in newly added claim 6, is employed to block the bottom of the bearing seat 212 and an inner groove provided in the sealing plug for receiving the free end of the shaft 29 and containing the lubrication oil is not disclosed by Hsieh. Besides, the bottom of the bearing seat 312, which is recited in the newly added claim 7, having an inner groove 3122 for receiving the free end of the shaft 29 and containing the lubrication oil is not disclosed by Hsieh. Furthermore, a clearance, which is recited in the newly added claims 6 and 7, being formed between the shaft 29 and the stop member 2123, 371 respectively is capable of breaking capillarity of the lubrication oil such that the lubrication oil being unable to flow outward the bearing seat 212, 312 via the stop member 2121, 371 is not disclosed by Hsieh.

10. Comparison of the characteristics recited in the newly added claims 6 and 7 to Chen:

The cooling fan for motors disclosed by Chen provides a shaft holder 11,

a shaft 23 and two bearings 3. There are three oil chambers 5, 6, 7 in the shaft holder 11 and the oil chambers 5, 6, 7 are separated by the bearings 3.

However, the plate shaped stop members 2121, 371 recited in the newly added claims 6 and 7 are not mentioned by Chen. Further, the two bearings 3 are disposed to separate the oil chambers 5, 6 and 7 are not recited in the newly added claims 6 and 7. In addition, the sealing plug 27, which is recited in newly added claim 6, is employed to block the bottom of the bearing seat 212 and an inner groove provided in the sealing plug for receiving the free end of the shaft 29 and containing the lubrication oil is not disclosed by Chen. Besides, the oil chamber 5 of Chen is structurally different from the inner groove 3122 at the bottom of the bearing seat 312, which is recited in the newly added claim 7, for receiving the free end of the shaft 29 and containing the lubrication oil. Furthermore, a clearance, which is recited in the newly added claims 6 and 7, being formed between the shaft 29 and the stop member 2123, 371 respectively is capable of breaking capillarity of the lubrication oil such that the lubrication oil being unable to flow outward the bearing seat 212, 312 via the stop member 2121, 371 is not disclosed by Chen.

11. Conclusion:

In view of above, the characteristics recited in the newly added claims 6 and 7 are not disclosed by Li, Hsieh and Chen. It is respectfully requested the newly added claims 6 and 7 be reconsidered and the rejections under 35 U.S.C. 102(b) be withdrawn. Such action is respectfully solicited.

Respectfully submitted

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